|  |  |  |
| --- | --- | --- |
| **Topic 2: Functions** | **Linear Functions and Slopes** | |
|  | | |
| 1. In 2010, the average price of a home in Greenville County was $169,000. By 2019, the average price of a home was $193,000.     1. Write a linear model for the price of a home, , in Greenville County as a function of the year, . Let correspond to the year 2000.    2. If this model continues, find the average price a house in Greenville County would be in the year 2030. | | (3 marks)  (2 marks) |
| Mark scheme:   1. or   Attempt to find the y-intercept or use point slope of an equation. One possible model:      1. Using for the year 2030: | | (M1)  (M1)   (A1)   (M1)  (A1) |